



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

MCO 1543.5
C2I
25 Oct 91

MARINE CORPS ORDER 1543.5 W/CH 1

From: Commandant of the Marine Corps
To: Distribution List

Subj: MATERIEL FIELDING PLAN (MFP) FOR THE DIVING EQUIPMENT
SET

Encl: (1) Materiel Fielding Plan for the Diving Equipment Set

1. Purpose. To provide information and instructions concerning the fielding of the Diving Equipment Set.

2. Information. The Diving Equipment Set is organized to support and equip a reconnaissance underwater diver. The set is to be used in conjunction with the Surface Swimmer Set during open circuit diving.

3. Action. The commanders of each organizational element concerned shall ensure implementation of the provisions of this Order.

4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.


R. A. TIEBOUT

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SET

1. Purpose. To direct pen changes to the basic Order.

2. Action

a. Enclosure (1), page 3, paragraph c, add "shipping container," to the second sentence between "air cylinder" and "and manifold twin tank harness".

b. Enclosure (1), page 3, paragraph c, add "8" to the bottom of the "Item Number" column and the words "Shipping Container" to the bottom of the "Item Name" column.

R.A.T.I.L.

R. A. TIEBOUT
By direction

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MATERIEL FIELDING PLAN

FOR THE DIVING EQUIPMENT SET

1. Introduction

a. Source of Requirement. Commanding General (CG) Marine Corps Combat Development Center (MCCDC) message 252000Z Jul 90 identified a "Scout Swimmer Set" as an equipment requirement for the Special Operational Capable (SOC) units. In addition to satisfying that requirement the Diving Equipment set will replace the following obsolete items of equipment:

TAMCN	NOMENCLATURE
C4520	Cylinder, Block
C4910	Gauge, Depth, Wrist

b. Points of Contact

<u>Name</u>	<u>Command/Telephone</u>
Maj. O'Hara	Project Officer Diving Equipment MCRDAC (C2IA) Quantico, VA 22134-5001 AV/DSN 278-2914 COMM: (703) 640-2914
GySgt Scriven	Assistant Project Officer Diving Equipment MCRDAC (C2IA) Quantico, VA 22134-5001 AV/DSN 278-2914 COMM: (703) 640-2914
Capt Thompson	ILS Officer Diving Equipment MCRDAC (C2IL) Quantico, VA 22134-5001 AV/DSN 278-2234 COMM: (703) 640-2234
Judy Mathis	Inventory Manager Diving Equipment MCLBA (Code 835-2) Albany, GA 31704-5000 AV/DSN 567-6534 COMM: (912) 439-6534

c. Fielding Methodology

(1) General Fielding Plan. The Diving Equipment Set is an existing item of supply, therefore no initial issue will be

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conducted, except for new Table of Equipment (T/E) allowances. The Diving Equipment set will be available to the units in the quantities as listed in appendix A. Appendix B indicates the Schedule of Events.

(2) Method of Fielding. Using units have fielded the set by way of individual components as replacement items for the obsolete sets listed in paragraph 1.d.

d. Replaced Weapon Systems. The Diving Equipment set is replacing C4520 and C4910.

2. System Description

a. Administrative Information

- (1) Nomenclature. Diving Equipment Set.
- (2) TAMCN. C4550IIEP
- (3) Stores Account Code (SAC). 1
- (4) NSN. 4220-01-333-9861
- (5) Unit of Issue (UI). Set.
- (6) Unit Cost (UC). \$1567.00
- (7) Support Cost. None.
- (8) Petroleum, Oil and Lubricants (POL). N/A
- (9) Equipment Density. Normal.
- (10) Readiness Reporting. None.

b. Physical Characteristics

	<u>Operational Configuration</u>	<u>Storage/Shipping Configuration</u>
(1) Length.	42 in	42 in
(2) Width.	30 in	30 in
(3) Height.	18 in	18 in
(4) Square.	8.75 ft(2)	8.75 ft(2)
(5) Cube.	13.125 ft(3)	13.125 ft(3)

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(6) Weight.	100 lbs	100 lbs
(7) Stowage.	8.75 ft (2)	8.75 ft (2)
(8) Power Requirements	none	none

* c. Operational Characteristics. The Diving Equipment Set is used to equip a SCUBA diver during operations that do not exceed 190 feet in underwater depth. The set is designed for open circuit diving and includes a diver's belt, depth gauge, life preserver, regulator, air cylinder, shipping container, and manifold twin tank harness. See figure 1-1 for a display of the items in the Diving Equipment Set. The following key identifies the components:

<u>Item Number</u>	<u>Item Name</u>
1	Belt, Diver's
2	Gauge, Depth, Diver's
3	Life Preserver, Vest
4	Regulator Assembly
5	Cylinder, Compressed gas
6	Manifold, Air Line
7	Military Twin Tank harness
8	Shipping Container

d. Associated/Related Systems/Equipment. TAMCN K4953IIEP, Surface Swimmer Set is designed to be used with the Diving Equipment Set.

3. Logistics Support

a. Maintenance Support. All of the items in the Diving Equipment Set require first echelon maintenance by the using and owning units. The life preserver, regulator, and manifold shall receive up to fourth echelon maintenance level of repair. The Source, Maintenance and Recoverability (SMR) codes, as shown in the Diving Equipment Set's Stock List (SL) 4, specify which echelon of maintenance are to be followed when conducting maintenance. Maintenance personnel will follow the maintenance actions as specified in the respective Maintenance Requirements Card (MRC), OPNAV 4790.4B, and local Maintenance Management Standard Operating Procedures (MMSOP's).

(1) First Echelon Maintenance. All using and owning units are required to perform the basic care, cleaning, and inventory requirements on the items in the Diving Equipment Set. The tasks are to be performed by a qualified diver.

(2) Second Echelon Maintenance. Second echelon maintenance performed on the life preserver, regulator or manifold must be conducted by a technician that has completed the appropriate commercial or military service repair course.

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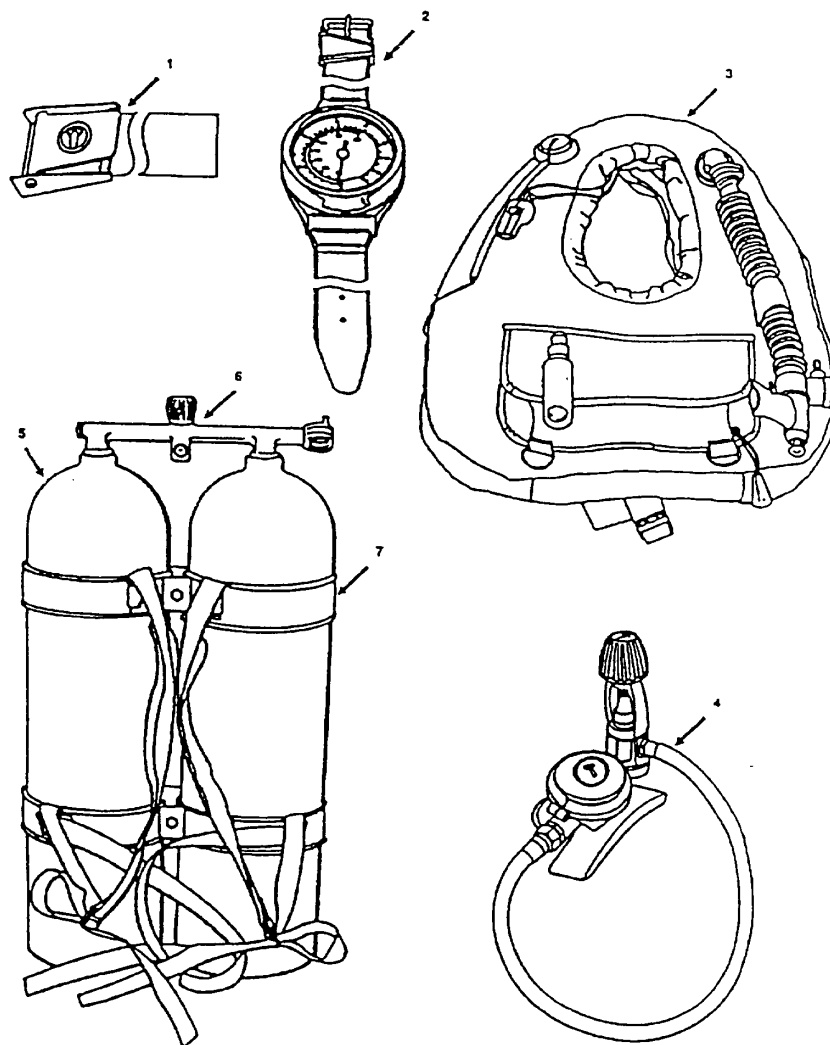


Figure 1-1. Diving Equipment Set

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Second echelon maintenance performed on the diver's belt, compressed gas cylinder, and twin tank harness shall be performed by a qualified diver and will follow the procedures as shown in the respective maintenance manuals and MRC. The maintenance actions are limited to the detection, removal, and replacement of the repair parts that are listed in the Diving Equipment Set's SL-4. The diver's depth gauge shall be scheduled and turned in every six months for calibration to calibration facility. The owning unit shall conduct periodic comparison testing of the diver's depth gauge using a pressure test chamber, especially if the gauge is dropped or a defect is suspected.

(3) Third and Fourth Echelon (Intermediate Level) Maintenance. Intermediate level maintenance will be performed by the owning unit on the life preserve, regulator, and manifold. Maintenance actions are to be performed on maintenance repair items at the intermediate level as specified by the appropriate SMR codes and listed in the Diving Equipment Set's SL-4.

(4) Calibration Requirements. The diver's depth gauge requires calibration every six months by an authorized calibration facility.

(5) Hydrostatic Testing Requirements. The oxygen cylinder's require hydrostatic testing every five years at an authorized hydrostatic testing facility.

b. Contractor Support Requirements

(1) Depot Support. None.

(2) Interim Contractor Support (ICS). None.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. No impact on current authorizations is required. The current table of organization (T/O) strength will be used.

(2) Training Requirements. Owning and using units must send personnel to other service diving equipment maintenance send personnel to other service diving equipment maintenance schools or specific commercially available schools that CG, MCCDC (WF-11) has authorized in accordance with MCO 1500.16C.

(3) Training Support Items. None.

d. Supply Support

(1) Provisioning. Initial issue provisioning is not required.

(2) Replenishment. All requests to fill approved new T/E allowances, above what is listed in appendix A, will be sent

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to Commander, Marine Corps Logistics Bases (COMMARCORLOGBASES), (Code 835-2) Albany, GA. All component requisitions should be routed to the source of supply listed in Marine Corps files. Since this set is a Stores Account Code (SAC) 1 item, the owning units are required to fund for their own Operations and Maintenance (O&M) funds for replenishing set components.

e. Support Equipment. None.

(1) Special Tools. None.

(2) Common Tools. All tools needed to repair the items in the Diving Equipment Set are listed in the Tool Set, Diving Equipment (TAMCN K4997) SL-3-09527A.

(3) Special Purpose Test Equipment (SPTE). None.

(4) General Purpose Test Equipment (GPTE). The gauge pressure, dial indicating (NSN 6685-00-099-8024), which is listed as a using unit responsible item, is utilized to ensure the compressed gas cylinder's pressure is 80 cubic foot prior to diving.

(5) Test Program Sets (TPS). None.

(6) Other Support Equipment. None.

f. Technical Publications (TP). The Diving Equipment Set is supported by the SL-3-09531A and SL-4-09531A for component part requisitioning and repair part requisitioning, respectively. The appropriate MRC and other maintenance manuals are to be followed when performing maintenance and support procedures. Any commercial manuals that are overpacked with the equipment are to be used as reference material when completing maintenance functions or operating the items in the Diving Equipment Set.

g. Computer Resources Support. None.

h. Facilities. No new, interim or special facilities are required to support the Diving Equipment Set.

i. Packaging, Handling, Storage, and Transportation

(1) Packaging. There are no special packaging requirements for the Diving Equipment Set.

(2) Handling. There are no special handling procedures for the Diving Equipment Set. The compressed gas cylinders need to be handled with caution in order to prevent accidental rupture at the manifold.

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(3) Storage. The Diving Equipment Set should be stored away from the elements to allow protection from mold, mildew, dry rot, and rust when not in operation.

(4) Transportability. The compressed gas cylinders need to be properly marked in order to meet any air or shipboard embarkation procedures prior to transport.

j. Warranties

(1) There is no warranty for items in the Diving Equipment Set that are marked with a Military Specification (MILSPEC) number. Non MILSPEC items in the set that have commercial warranties will be overpacked with the warranty instructions. The depth gauge has a lifetime manufacturer's guarantee that covers all deficiencies that occur from other than abuse or neglect.

(2) If any of the items become deficient from other than normal wear and tear, a Quality Deficiency Report (QDR) should be submitted to COMMARCORLOGBASES (Code 808-1), Albany, GA. A QDR, with block 19 marked "yes", should also be completed if a deficiency occurs during the warranty period. The starting time of the warranty will be recorded by the owning unit upon delivery. Understanding the terms and conditions of the any commercial warranties is the owning unit's responsibility. Any questions on the warranty should be addressed to COMMARCORLOGBASES, Albany, GA (Code 808-1).

4. Actions Required To Place Equipment In Service

a. Gaining Commands

(1) Items will be placed on administrative deadline until all of the standards required by paragraph 3b(1) on page 3-17 of MCO P4105.3 are met.

(2) Request authorization to place the item in service from the appropriate Commanding General (FMFLant/FMFPac) when all the requirements are met.

(3) Material Defects Reporting. If any of the contents of the Diving Equipment Set arrive damaged or missing, a [SF 364](#) should be submitted to COMMARCORLOGBASES (Code 808-1).

(4) Retrograde/Disposal of Existing Equipment. All equipment which is currently being held in lieu of the Diving Equipment Set should be returned to the unit supply officer for disposition as new components are requisitioned and received. Additional items listed in the Using Unit Responsible section of the Diving Equipment Set's SL-3 can be held in the unit's inventory when authorized by the unit's Commanding Officer.

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(5) Obtaining Supporting Consumable. To requisition Cartridge, Carbon Dioxide, 4220-00-372-0585, submit Military Standard Requisitioning and Issue Procedures (MILSTRIP) document to Defense General Supply Center (DGSC).

b. Amphibious Reconnaissance School/Course (ARS/C)
LFTCLANT/LFTCPAC. Each school shall incorporate the use of the Diving Equipment Set into programs of instruction (POI's) and course descriptive data (CDD's) and forward to CG, MCCDC (TE31) for approval.

c. MCLB, Albany, GA. Provide assistance in the coordination and completion of the Principal End Item (PEI) transfer process.

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LIST OF ALLOWANCES AND DELIVERY SCHEDULES

ACTIVE FORCES

T/E No	UNIT TITLE	No. <u>Units</u>	UNIT <u>ALLOW</u>	PLANNED FY 91 QTR		
				2	3	4
5980	Amphibious, Recon School, LFTCLANT	1	20	20		
5981	Amphibious, Recon Course, LFTCPAC	1	20	20		
N1411	H&S Co, Recon Bn, 1st MarDiv	1	5	5		
N1412	Recon Co, Recon Bn, 1st MarDiv	4	30	120		
N1421	H&S Co, Recon Bn, 2d MarDiv	1	5	5		
N1422	Recon Co, Recon Bn, 2d MarDiv	4	30	120		
N1431	H&S Co, Recon Bn, 3d MarDiv	1	5	5		
N1432	Recon Co, Recon Bn, 3d MarDiv	2	30	60		
N1433	Recon Co w/Deep Recon Cap. Recon Bn, 3d Mar Div					
B1432	A Co (REIN), Recon Bn, 1st MEB	1	20	20		
N4618	Force Recon Co, 1st SRI Group	1	196	196		
N4718	Force Recon Co, 2d SRI Group	1	110	110		

RESERVE FORCES

T/E No	UNIT TITLE	No. <u>Units</u>	UNIT <u>ALLOW</u>	PLANNED FY 91 QTR		
				3	4	
N1441	H&S Co, Recon BN, 4th MarDiv	1	81	81		
N1442	Recon Co, Recon BN, 4th MarDiv	5	81	405		
M4623	3d Force Recon Co, 4th MarDiv (Mobile, AL)	1	110	110		
M4623	4th Force Recon Co, 4th MarDiv (Hawaii)	1	110	110		
M4623	DET 4th Force Recon Co, 4th MarDiv (Reno, NV)	1	110	110		

Total 1,517

Appendix A to
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SCHEDULE OF EVENTS

Begin Fielding	3d QTR FY 91
Initiating Service Date	3d QTR FY 91
Initial Operational Capability	3d QTR FY 91
FOC	1st QTR FY 93

Appendix B to
ENCLOSURE (1)